

Sub 04. comprising:

- 1
- 2

3  
4  
5  
6

1  
2
$$\begin{matrix} 1 \\ 2 \end{matrix}$$
1  
2

- 1
- 2

- 1
- 2

1  
2

- 1
- 2

- 1
- 2

R-1.126

1 <sup>10</sup>  
8. A serial communication apparatus used to communicate with a battery  
2 management system, comprising:  
3 a port capable of sending and receiving pulses over a single conductor;  
4 serial interface logic compatible with a serial protocol and capable of generating and  
5 detecting signals on the port and communicating the signals with an internal bus in the  
6 battery management system wherein each signal in the serial protocol is defined by a specific  
7 number of pulses.

1 <sup>11</sup>  
9. The apparatus of claim <sup>10</sup>8 wherein the pulse width for each pulse in a signal is  
2 substantially the same.

1 <sup>12</sup>  
10. The apparatus of claim <sup>10</sup>8 wherein the time duration between signals is at least  
2 two times longer than the width of a pulse.

1 <sup>13</sup>  
11. The apparatus of claim <sup>10</sup>8, wherein a zero signal corresponds to a  
2 sequence of two pulses.

1 <sup>14</sup>  
12. The apparatus of claim <sup>10</sup>8, wherein a one signal corresponds to a sequence of  
2 three pulses.

1 <sup>15</sup>  
13. The apparatus of claim <sup>10</sup>8, wherein an acknowledge signal corresponds to a  
2 sequence of four pulses.

1 <sup>16</sup>  
14. The apparatus of claim <sup>10</sup>8, wherein a start communication signal corresponds  
2 to a sequence of five pulses

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